

LIMITED ONE YEAR WARRANTY

Chaney Instrument Company warrants that all products it manufactures to be of good material and workmanship and to be free of defects if properly installed and operated for a period of one year from date of purchase. REMEDY FOR BREACH OF THIS WARRANTY IS EXPRESSLY LIMITED TO REPAIR OR REPLACEMENT OF DEFECTIVE ITEMS. Any product which, under normal use and service, is proven to breach the warranty contained herein within ONE YEAR from date of sale will, upon examination by Chaney, and at its sole option, be repaired or replaced by Chaney. In all cases, transportation costs and charges for returned goods shall be paid for by the purchaser. Chaney hereby disclaims all responsibility for such transportation costs and charges. This warranty will not be breached, and Chaney will give no credit for products it manufactures which shall have received normal wear and tear, been damaged, tampered, abused, improperly installed, damaged in shipping, or repaired or altered by others than authorized representatives of Chaney.

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For in-warranty repair, please contact:

Customer Care Department
Chaney Instrument Company
965 Wells Street
Lake Geneva, WI 53147

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- 1- This device may NOT cause harmful interference, and
- 2- This device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, There is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.

Patent numbers: 5,978,738; 6,076,044; 6,597,990; US 7,637,141 B2

02010CCDI INST 052512

ACU·RITE®
DESIGNED TO WORK FOR YOU™



Weather Forecaster
model #02010-CCDI

Instruction Manual

Introduction

The AcuRite® Weather Forecaster with wireless outdoor sensor collects outside weather data and sends it wirelessly to the Display Console via radio frequency. This weather forecaster has been designed to be easy to install and use.

This weather forecaster features Micro-Forecasting technology, which allows you to select one of seven geographic regions to give you a detailed, accurate forecast for the whole day- from your own backyard! The easy to read forecast display predicts your cloud cover, as well as the expected high and low temperatures for the next 12 hours by analyzing your weather patterns and changes in great detail.

The sleek display console houses a liquid crystal display (LCD) which will calculate and display all the weather data received from the wireless sensor outside. The display console features a pressure sensor for measuring barometric pressure, a temperature sensor for measuring indoor temperature and a humidity sensor for measuring indoor humidity. The Display Console is powered with three "AA" alkaline batteries (not included).

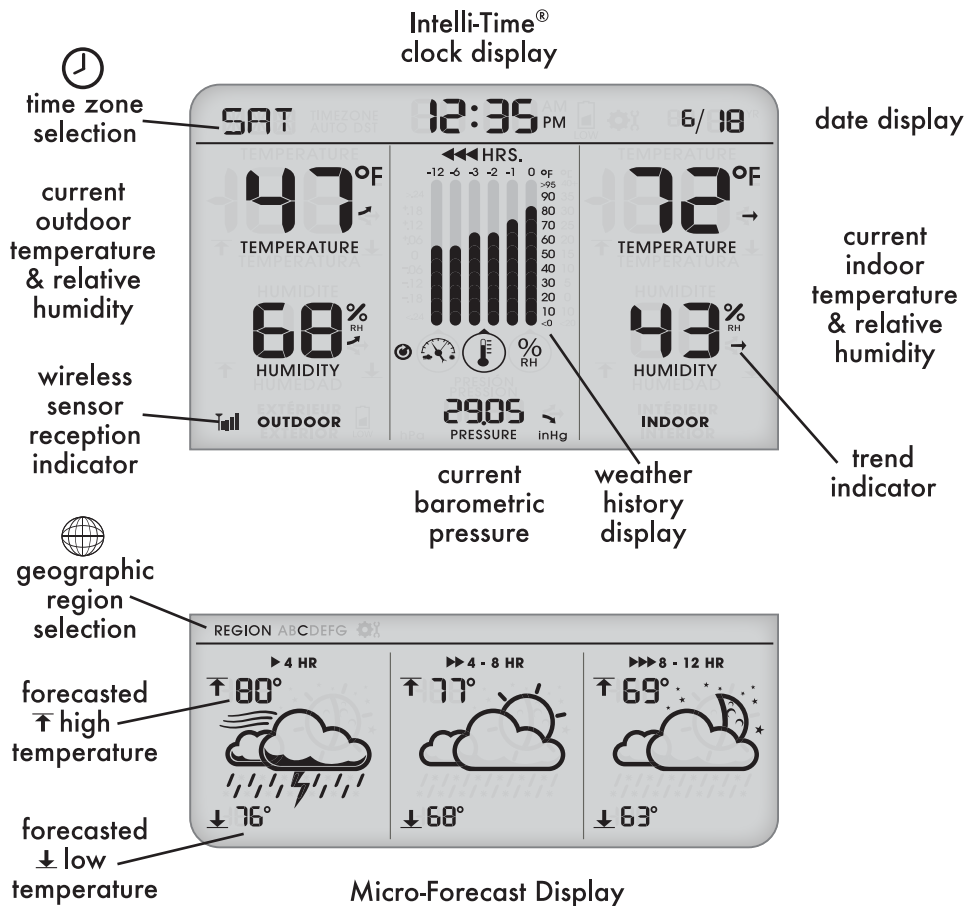
The wireless outdoor sensor is completely wireless and contains a temperature sensor for measuring indoor temperature and a humidity sensor for measuring indoor humidity. The wireless outdoor sensor is powered with two "AA" alkaline or lithium batteries (not included).

Please read through this manual to learn more about the Acurite® Weather Forecaster. Keep this manual for future reference.

Parts List model #02010-CCDI

1. Display console
2. Wireless outdoor sensor

Display Features



PLEASE DISPOSE OF OLD OR DEFECTIVE BATTERIES IN AN ENVIRONMENTALLY SAFE WAY AND IN ACCORDANCE WITH YOUR LOCAL LAWS AND REGULATIONS.

BATTERY SAFETY: Clean the battery contacts and also those of the device prior to battery installation. Remove batteries from equipment which is not to be used for an extended period of time. Follow the polarity (+/-) diagram in the battery compartment. Promptly remove dead batteries from the device. Dispose of used batteries properly. Only batteries of the same or equivalent type as recommended are to be used. DO NOT incinerate used batteries. DO NOT dispose of batteries in fire, as batteries may explode or leak. DO NOT mix old and new batteries or types of batteries (alkaline/standard). DO NOT use rechargeable batteries. DO NOT recharge non-rechargeable batteries. DO NOT short-circuit the supply terminals.



WARNING: THIS PRODUCT CONTAINS A BUTTON-CELL BATTERY. IF SWALLOWED, IT COULD CAUSE SEVERE INJURY OR DEATH IN JUST 2 HOURS. SEEK MEDICAL ATTENTION IMMEDIATELY IF INGESTED.



Battery Choice & Temperature Range

Extended periods of cold temperatures (below -4°F / -20°C) can cause alkaline batteries to function improperly. This will cause the outdoor wireless sensor to stop transmitting readings. Use lithium batteries in these low temperature conditions to ensure continued operation for wireless sensors placed outdoors.

LITHIUM BATTERIES -40°F (-40°C) (70°C) 158°F

ALKALINE BATTERIES -4°F (-20°C) (70°C) 158°F

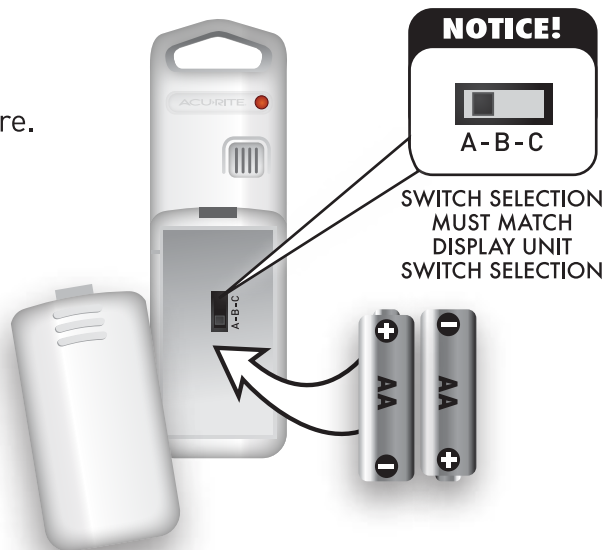
A/B/C Wireless Selection

To allow for more than one weather station and wireless sensor network to be used in close proximity, the display unit and the wireless sensor have a small switch labeled "A B C" within the battery compartments. This switch selects one of 3 wireless modes to use, and both switches **MUST** be set in matching positions (either A, B, or C) for wireless communication to take place successfully.

Installing Batteries - Wireless Sensor

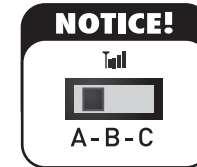
Remove the battery compartment cover. Install 2 fresh "AA" batteries as shown here.

BATTERIES MUST BE INSTALLED FOR THE SENSOR TO OPERATE

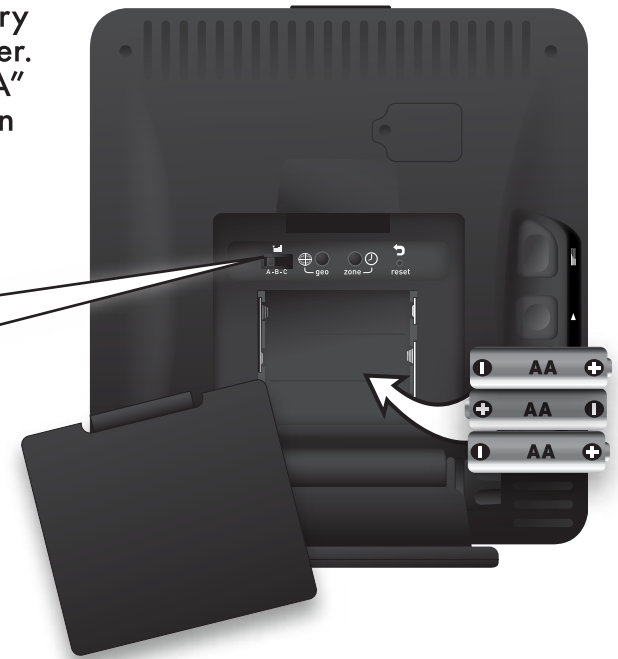


Installing Batteries - Display Console

Remove the battery compartment cover. Install 3 fresh "AA" batteries as shown here.



SWITCH SELECTION MUST MATCH WIRELESS SENSOR SWITCH SELECTION



About the Self Setting Intelli-Time® Clock

Your new wireless forecaster is equipped with Intelli-Time® technology which is pre-programmed with the correct time and date. Intelli-Time® technology instructs the clock to set itself once batteries are installed. All you need to do is select your Time Zone and Daylight Saving Time preferences. The clock will automatically set itself and change automatically for Daylight Saving Time.

PRODUCT REGISTRATION

To receive product updates and information, Go to

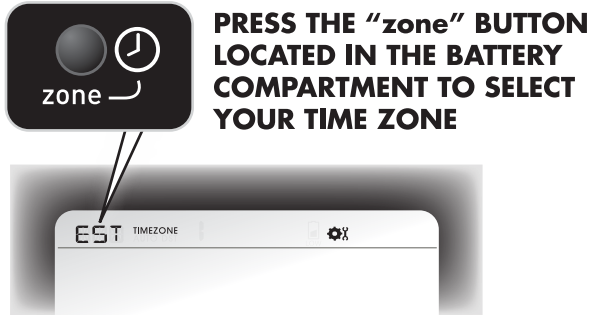
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Quick Setup - Display Console

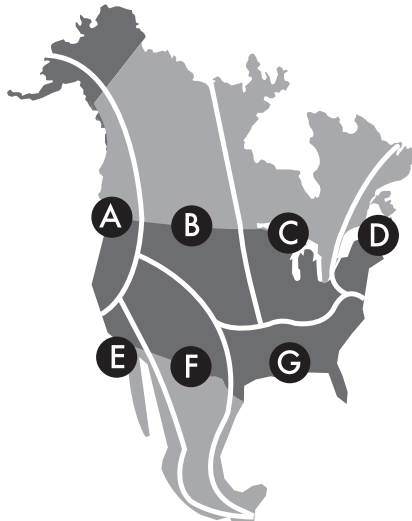
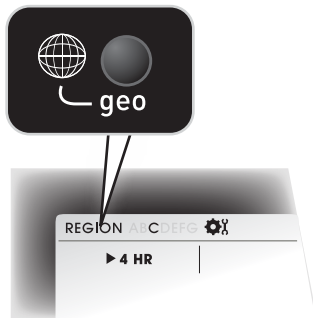
After installing batteries, the Intelli-Time® clock and calendar will automatically set to the correct time, all you need to do is select your time zone.



NOTE: IF FRENCH OR SPANISH LANGUAGE IS SELECTED (SEE DISPLAY CONSOLE: MANUAL SETUP TO CHANGE REFERENCE LANGUAGE), THE TIME ZONE SELECTION ON THE DISPLAY WILL BE G.M.T. +/- HOURS

Next, you will need to select your general geographic region for the Micro-Forecast to function properly. The Micro-Forecast feature analyzes outdoor temperature, outdoor humidity, pressure changes and geographic region information to give you the most accurate forecast breakdown a single station forecaster can provide.

PRESS THE "geo" BUTTON LOCATED IN THE BATTERY COMPARTMENT TO SELECT YOUR GEOGRAPHIC REGION



Manual Setup - Display Console

Press the SET () button to enter into manual set mode. The time zone will begin blinking.

To adjust the currently selected (flashing) preference item, press and release the "▲" or "▼" buttons.

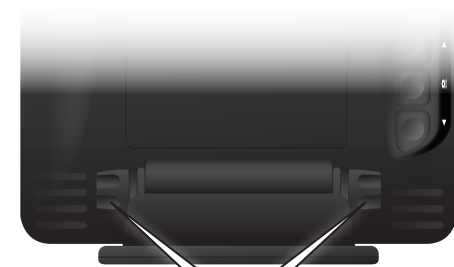
To save your adjustments, press and release the " " button again to move on to adjusting the next preference. The preference set order is as follows:

- TIME ZONE (PST MST CST EST AST HAST AKST)
- AUTO DST (Automatically adjust time +/- on DST dates)
- CLOCK HOUR
- CLOCK MINUTE
- CALENDAR MONTH
- CALENDAR DATE
- CALENDAR YEAR
- UNITS: TEMPERATURE (°F or °C)
- UNITS: PRESSURE (inHg or hPa)
- REFERENCE LANGUAGE (English, Spanish or French)

You will automatically exit SET MODE if no entries are made for 30 seconds. You may enter basic setup mode again at any time by pressing and releasing the "SET" button.

Adjustable Stand - Display Console

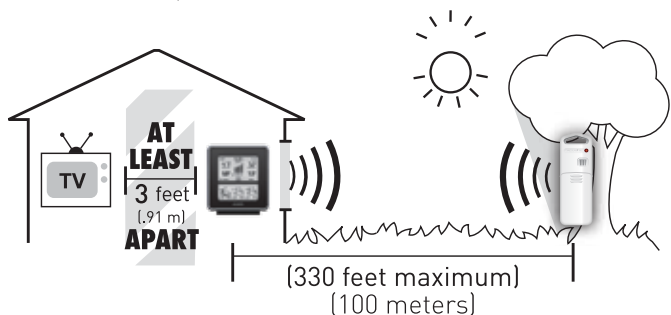
To adjust the display for optimum viewing angle, loosen the locking knobs and gently tilt the display to the desired angle. Re-tighten the knobs to set the angle.



Display Angle Locking Knobs

Now that setup is complete, you must choose a location to place the wireless sensor and the display console. The wireless sensor **MUST** be placed less than 330 feet (100 meters) away from the display console.

This wireless forecaster uses radio frequency for communication, which is susceptible to interference from other electronic devices and large metallic items or thick walls. Always place both units at least 3 feet (.91 m) away from appliances (TV, microwave, radios, etc.) or objects that may interfere with the wireless communication (large metal surfaces, thick stone walls, etc.).



Placement of Display Console

Place the display console in a dry area free of dirt and dust. To help ensure an accurate indoor temperature measurement, be sure to place the display console out of direct sunlight, and away from any heat sources or vents in your home. You may place the main unit on a table top or other flat surface using the integrated adjustable table top display stand- this allows you to place the display unit and adjust it for the best viewing angle.

Placement of Sensor

The wireless sensor **MUST BE PLACED OUTDOORS** to observe outdoor temperatures. The wireless sensor must be placed less than 330 feet (100 meters) from the display console. The wireless sensor is water resistant and is designed for general outdoor use. However, to extend the life of the product, place the wireless sensor in an area protected from direct weather elements. To ensure an accurate outdoor temperature measurement, be sure the wireless sensor is placed out of direct sunlight and away from any heat sources.

There are 2 placement options for the wireless sensor. You may hang it using one of the two integrated hang holes, or use string (not included) to hang it from a suitable location like a well covered tree branch.

Micro-Forecast

Initial learning mode

The Micro Forecast will not display predicted high or low temperatures for the first few hours after powering on. During this initial learning mode, the weather forecaster will observe changes to learn your weather patterns and increase the accuracy of the forecast.

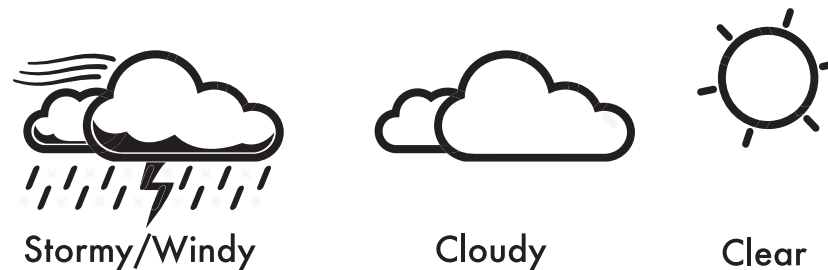
Micro-Forecast Display

The Micro-Forecast display area gives you the predicted weather forecast for the next 4 hour, 4 to 8 hour, and 8 to 12 hour time periods. Each time-period will also display the predicted High and Low temperatures.

The forecaster is always analyzing the available data, and consistently updates the forecast icons and highs & lows as time goes on. This will help you to plan ahead for the next 12 hours of weather at any given time.

The weather forecast icon will display one of 18 different weather conditions. The Moon will show (as a simplified Moon Phase) instead of the sun when the forecast time period occurs overnight.



Below is an example of three of the forecast icons.

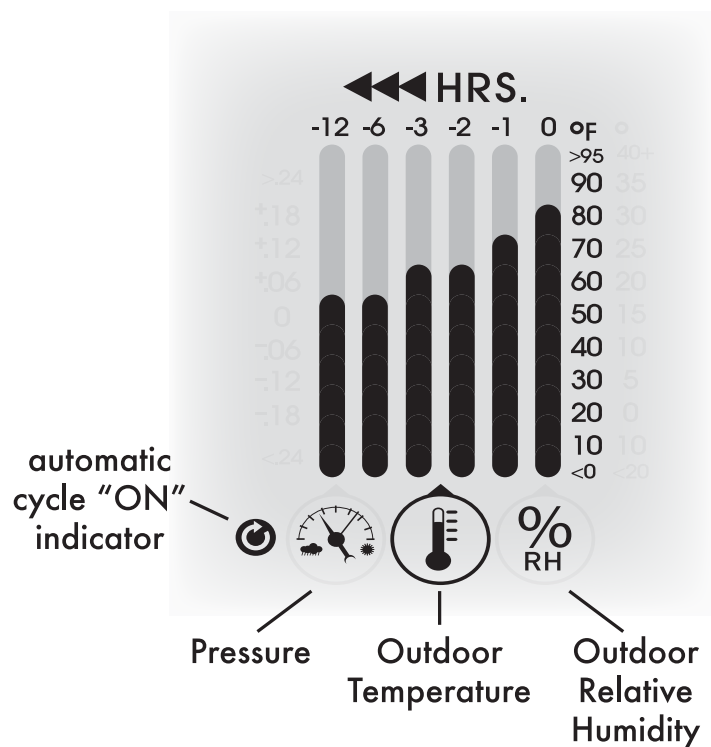


Weather History

The upper display of the forecaster features a weather history graphing display. This area will track and graph the previous 12 hours of readings for pressure, outdoor temperature and outdoor relative humidity.

Press the history chart button located on the back of the display unit () to cycle through the three available history charts manually.



Alternatively, you may set the history chart to automatically cycle through the three history charts. To toggle automatic cycle mode ON or OFF, press AND HOLD the history chart button () for 4 seconds. The cycle icon () will appear on the display when auto cycle mode is enabled.





Minimum & Maximum Records

The display unit features Minimum & Maximum records display mode. The minimum and maximum values for indoor and outdoor temperature and humidity are recorded and kept until midnight every day, when the records are reset for the next day.

Minimum Records

To view the minimum records, press the "adjust down" button () located on the back of the display unit. The minimum recorded values will display for about 8 seconds (note the "↓" icon indicating minimum records being displayed). To manually reset the records being displayed, press and hold the "adjust down" () button while viewing the records.

Maximum Records

To view the maximum records, press the "adjust up" button () located on the back of the display unit. The maximum recorded values will display for about 8 seconds (note the "↑" icon indicating maximum records being displayed). To manually reset the records being displayed, press and hold the "adjust up" () button while viewing the records.

Momentary Backlight

The display unit features a momentary blue backlight for easy night-time viewing. The button to activate the backlight is located on the very top edge of the display unit housing. Pressing the button will give you about 10 seconds of illumination. Note that excessive use of the backlight will reduce the battery life.

Momentary Backlight Button





Atmospheric Pressure

Atmospheric Pressure is defined as the pressure at any location on the Earth, caused by the weight of the column of air above it. At sea level, atmospheric pressure has an average value of one atmosphere and gradually decreases as altitude increases. Also called barometric pressure.

The weight of the air mass, or atmosphere, that envelopes Earth exerts pressure on all points of the planet's surface. Meteorologists use barometers to measure this atmospheric pressure (also called barometric pressure). At sea level the atmospheric pressure is approximately 1 kilogram per square centimeter (14.7 pounds per square inch), which will cause a column of mercury in a mercury barometer to rise 760 millimeters (30.4 inches). Subtle variations in atmospheric pressure greatly affect the weather. Low pressure generally brings rain. In areas of low air pressure, the air is less dense and relatively warm, which causes it to rise. The expanding and rising air naturally cools, and the water vapor in the air condenses, forming clouds and the drops that fall as rain. In high pressure areas, conversely, the air is dense and relatively cool, which causes it to sink. The water vapor in the sinking air does not condense, leaving the skies sunny and clear.

This weather forecaster features a current barometric pressure display, as well as a text readout of the trend (rising, falling or steady). These two features can assist you in forecasting changes in the weather.

29.05
PRESSURE inHg

Problem	Possible Solution(s)
<p>Bad Wireless Sensor Reception</p> <p> no bars</p>	<p>Relocate the main unit and/or the wireless sensor. Both units must be within 330 feet (100 meters) from each other. Make sure both units are placed at least 3 feet (.91 m) from other electronic appliances and devices that may interfere with the wireless communication (such as TV's, microwaves, computers etc). NOTE: It may take up to 20 minutes for the main unit to re-synchronize with the sensor when batteries are replaced. Use lithium batteries in sensor when temperature is below -4°F (-20°C). Make sure the A-B-C switch selection in the battery compartments of the display unit and sensor match.</p>
<p>Display Console Screen Not Working</p>	<p>Batteries may need replacing. Check that batteries are correctly installed. Reset the display unit and wireless sensor.</p>
<p>Micro Forecast displaying "-." for highs/lows</p>	<p>The Micro Forecast will not display predicted high or low temperatures or chance of precipitation for the first few hours after powering on or resetting. During this initial learning mode, the weather forecaster will observe changes to learn your weather patterns and increase the accuracy of the forecast.</p>
<p>Micro Forecast Inaccuracies</p>	<p>As with any weather forecast, 100% accuracy is not possible. However, if the micro forecast seems wildly inaccurate, make certain that your geographic region is selected properly. The geographic region selection can drastically affect the accuracy of the forecast. See "FORECAST CALIBRATION" to learn how you may improve the accuracy of the forecasting feature.</p>
<p> reset</p>	<p>NOTICE: The display may fail to start properly due to static discharge. Press the reset button located on the back of the display unit to reset the entire unit. Please note that all of the date and time information will need to be entered manually after a reset.</p>



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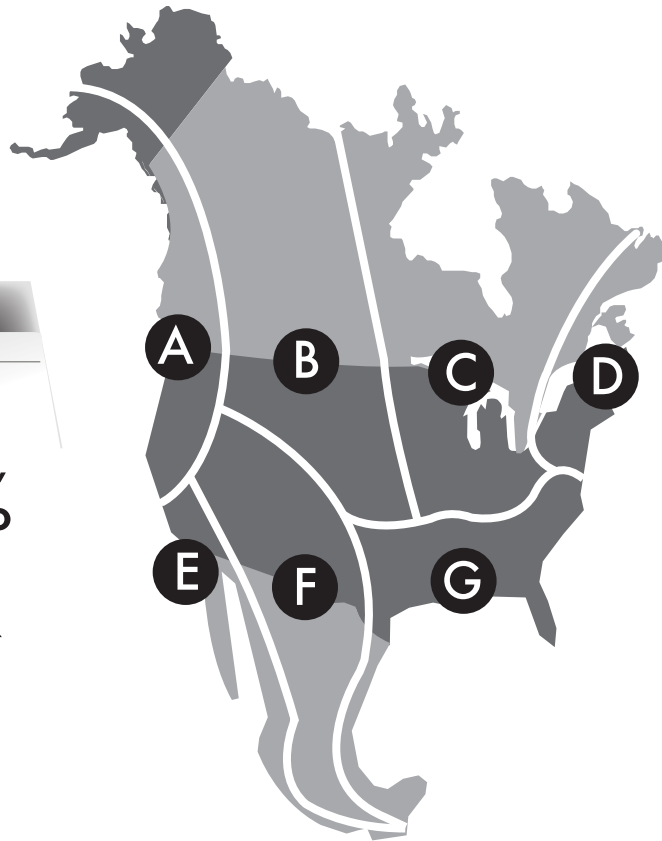


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Micro Forecast Geographic Region Selections

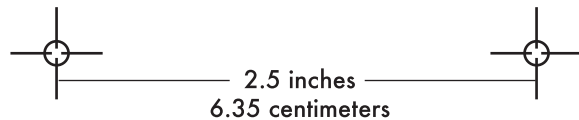


PRESS THE "geo" BUTTON LOCATED IN THE BATTERY COMPARTMENT TO SELECT YOUR GEOGRAPHIC REGION



Optional Display Unit Wall Mounting

The display unit features a wall mount option built into the bottom of the adjustable base. The two integrated keyhole mounts are provided, note that screws and anchors should be used (not included) for a secure mount. Below is a template for reference.



Product Facts

Renseignements sur le produit

Batteries: 5 x "AA" (included)

Piles : 5 x "AA" (incluses)

Lithium Batteries Recommended in **Outdoor Sensor** if temperatures are below -4°F

Piles au lithium recommandées dans le capteur extérieur si les températures sont en dessous de -20°C

Measurement Ranges

Gammes de mesure

Outdoor Temperature : -40°F to 158°F

Température extérieure : -40°C à 70°C

Outdoor Humidity : 1% to 99%

Humidité extérieure : 1% à 99%

Indoor Temperature : 32°F to 122°F

Température intérieure : 0°C à 50°C

Indoor Humidity: 1% to 99%

Humidité intérieure : 1% à 99%

Wireless Range : 330 ft / 100 m MAX

Gamme sans fil : 100 m MAX (330 pi)

Limited One Year Warranty
Garantie Limitée D'un An

MADE IN CHINA
Fabriqué en Chine

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Patent numbers/Numéros de brevets :
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FORECAST CALIBRATION

This weather devices' forecast allows for calibration. If you feel that the forecast could be "dialed in" to be more accurate- you may calibrate the forecast to be less or more "wet." Essentially, calibrating the forecast will either reduce or increase how much moisture is present within the forecast software algorithm.

For example, if you feel the forecast is showing rain too often, you may want to remove 10% of the moisture from the forecast equation to start with. To calibrate the weather forecast, you must enter into the calibration mode.

Forecast Calibration Mode

To access the forecast calibration mode, press AND HOLD the "▼" and "▲" buttons together for at least 5 seconds. After 20 seconds of inactivity, the display will save your adjustments and automatically exit calibration mode and return to normal operation.

Press the "▼" button to remove moisture to the forecast. Press the "▲" button to add moisture to the forecast. Note that the forecast graphics will change accordingly. Calibrating the forecast may take some trial and error. Note that just like any weather forecast - the forecast can never be 100% accurate.

Press the "⚙️" button to confirm your calibration changes and exit.

Note that all calibration changes will be lost if you reset the display unit or remove the batteries.



adding moisture +
no calibration
(actual sensor reading)
removing moisture -



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